

Specification : ED9 Medicinal Plant Extract for Erectile Dysfunction

Treatment/ สารสกัดตำรับยาสมุนไพร ED9 (Manose RM-0115)

(Application : An active ingredient in food supplements for erectile dysfunction treatment/ สารสำคัญในผลิตภัณฑ์เสริมอาหารสำหรับอาการเสื่อมสมรรถภาพทางเพศชาย)

1. Name of the raw material : ED9 Medicinal Plant Extract for Erectile Dysfunction Treatment
2. Active components : Triterpenoids, carbohydrates, glycosides, phytosterols, phenolic compounds, saponins, tannins and flavonoids⁽¹⁾
3. Common and scientific name/ Family of the plant : White Siris (*Albizia procera* (Roxb.) Benth.)/ FABACEAE
4. Physical appearance : Brownish powder with specific odor
5. pH : 5 (1% in distilled water)
6. Standardization : HPLC fingerprint using catechin and quercetin as markers⁽²⁾
7. Solubility : Soluble in water and ethanol
8. Microbial contamination : No pathogenic microorganism with less than 1,000 cfu/g of the total plate count of bacteria, yeast and fungi which is conformed to the Thai FDA regulation
9. Biological activities :
 - Antioxidant DPPH radical scavenging ($SC_{50} = 0.02 \pm 0.01$ mg/ml) (standard vitamin C = 0.01 ± 0.01 mg/ml)⁽³⁾
 - PDE5 inhibition at $70.65 \pm 2.65\%$ which is 1.56 times of the standard drug, sildenafil (Viagra)⁽³⁾
10. Animal / human performance test : -

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11. Safety : LD₅₀ > 5000 mg/kg in animals by oral administration considered as practically nontoxic⁽²⁾
12. Pharmaceutical, food supplement or cosmetic applications : Food supplement for erectile dysfunction treatment
13. Recommended concentrations in the product : -
14. Storage : Keep in tight container at cool place (4 °C) protected from light
15. Precautions : None
16. Cost per kg : Please request

References

1. Mohammed A.R.R. and Hashim G.H. Medicinal importance of leaves extracts of *Albizia Procera* (Roxb.) Benth in Sudan against some bacterial pathogens infected human and animal. *J Antimicro Agent*, 2021; 7(7): 1-4.
2. Srivastava V., Verma S., Panwar S., Deep P. and Verma S. A brief review on phytopharmacological reports on *Albizia procera*. *Asian Journal of Pharmacy and Pharmacology*, 2020; 6: 144-149.
3. Manose In-house Project “The Development of Extracts from Thai Medicinal Plants for Erectile Dysfunction Treatment” **Manose Health and Beauty Research Center** (www.manose.co), unpublished, 2016.